

Safety data sheet

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BASF Safety data sheet according to Regulation (EC) No. 1907/2006

Date / Revised: 23.07.2009

Product: **MASTERTOP P 621,P.B**

Version: 2.1

(30449433/SDS_GEN_EU/EN)

Date of print 24.07.2009

1. Substance/preparation and company identification

MASTERTOP P 621,P.B

Use: Product for construction chemicals

Company:

BASF SE

67056 Ludwigshafen

GERMANY

Operating Division Construction Chemicals

Telephone: +49 621 60-74354

Telefax number: +49 621 60-6674354

E-mail address: info.construction-chemicals@basf.com

Emergency information:

International emergency number:

Telephone: +49 180 2273-112

2. Hazard identification

Possible Hazards

Harmful by inhalation and if swallowed.

Causes burns.

May cause sensitization by skin contact.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Harmful by inhalation and if swallowed.

Causes burns.

May cause sensitization by skin contact.

Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

3. Composition/information on ingredients

Chemical nature

Hazardous ingredients

according to Directive 1999/45/EC

m-Phenylenebis(methylamine)

Content (W/W): $\geq 10\%$ - $< 15\%$

CAS Number: 1477-55-0

EC-Number: 216-032-5

Hazard symbol(s): C

R-phrase(s): 20/22, 34, 43

Benzyl alcohol

Content (W/W): $\geq 10\%$ - $< 25\%$

CAS Number: 100-51-6

EC-Number: 202-859-9

INDEX-Number: 603-057-00-5

Hazard symbol(s): Xn

R-phrase(s): 20/22

2-piperazin-1-ylethylamine

Content (W/W): $\geq 2.5\%$ - $< 5\%$

CAS Number: 140-31-8

EC-Number: 205-411-0

INDEX-Number: 612-105-00-4

Hazard symbol(s): C

R-phrase(s): 21/22, 34, 43, 52/53

2,4,6-tris(dimethylaminomethyl)phenol

Content (W/W): $\geq 1\%$ - $< 2.5\%$

CAS Number: 90-72-2

EC-Number: 202-013-9

INDEX-Number: 603-069-00-0

Hazard symbol(s): Xn

R-phrase(s): 22, 36/38

4,4'-methylenebis(cyclohexylamine)

Content (W/W): $\geq 1\%$ - $< 2.5\%$

CAS Number: 1761-71-3

EC-Number: 217-168-8

Hazard symbol(s): C, N

R-phrase(s): 22, 34, 51/53

The wording of the hazard symbols and R-phrases is specified in chapter 16 if dangerous ingredients are mentioned.

4. First-aid measures

General advice:

First aid personnel should pay attention to their own safety. Immediately remove contaminated clothing.

If inhaled:

If difficulties occur after vapour/aerosol has been inhaled, remove to fresh air and seek medical attention.

On skin contact:

After contact with skin, wash immediately with plenty of water and soap. Under no circumstances should organic solvent be used. If irritation develops, seek medical attention.

On contact with eyes:

In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.

On ingestion:

Rinse mouth immediately and then drink plenty of water, seek medical attention. Do not induce vomiting unless told to by a poison control center or doctor.

5. Fire-fighting measures

Suitable extinguishing media:

foam, water spray, dry extinguishing media, carbon dioxide

Unsuitable extinguishing media for safety reasons:

water jet

Specific hazards:

carbon dioxide, carbon monoxide, nitrogen oxides, fumes/smoke, carbon black, corrosive gases/vapours

Special protective equipment:

Wear a self-contained breathing apparatus.

Further information:

The degree of risk is governed by the burning substance and the fire conditions. Contaminated extinguishing water must be disposed of in accordance with official regulations.

6. Accidental release measures

Personal precautions:

Use personal protective clothing. Do not breathe vapour/aerosol/spray mists. Handle in accordance with good building materials hygiene and safety practice.

Environmental precautions:

Contain contaminated water/firefighting water. Do not discharge into drains/surface waters/groundwater.

Methods for cleaning up or taking up:

For small amounts: Pick up with inert absorbent material (e.g. sand, earth etc.). Dispose of contaminated material as prescribed.

For large amounts: Pump off product.

7. Handling and storage

Handling

Avoid aerosol formation. Avoid inhalation of mists/vapours. Avoid skin contact. Ensure adequate ventilation. No special measures necessary provided product is used correctly.

Protection against fire and explosion:

The substance/product is non-combustible. The product does not contribute to the spreading of flames, nor is it self combustible, not explosive.

Storage

Suitable materials for containers: tin (tinplate)

Further information on storage conditions: Keep only in the original container in a cool, dry, well-ventilated place away from ignition sources, heat or flame. Protect from direct sunlight. Store protected against freezing.

8. Exposure controls and personal protection

Components with workplace control parameters

1477-55-0: m-Phenylenebis(methylamine)

100-51-6: Benzyl alcohol

1761-71-3: 4,4'-methylenebis(cyclohexylamine)

Personal protective equipment

Respiratory protection:

Wear respiratory protection if ventilation is inadequate. Combination filter for gases/vapours of organic, inorganic, acid inorganic and alkaline compounds (e.g. EN 14387 Type ABEK).

Hand protection:

Suitable chemical resistant safety gloves (EN 374) also with prolonged, direct contact (Recommended: Protective index 6, corresponding > 480 minutes of permeation time according to EN 374): E.g. nitrile rubber (0.4 mm), chloroprene rubber (0.5 mm), butyl rubber (0.7 mm) and other
Manufacturer's directions for use should be observed because of great diversity of types.

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Eye protection:

Tightly fitting safety goggles (splash goggles) (e.g. EN 166)

Body protection:

acid- resp. lye-proof apron, e.g. of rubber (f.e. according to EN 14605), Body protection must be chosen based on level of activity and exposure.

General safety and hygiene measures:

Do not inhale gases/vapours/aerosols. Avoid contact with the skin, eyes and clothing. Handle in accordance with good building materials hygiene and safety practice. When using, do not eat, drink or smoke. Hands and/or face should be washed before breaks and at the end of the shift. At the end of the shift the skin should be cleaned and skin-care agents applied. Gloves must be inspected regularly and prior to each use. Replace if necessary (e.g. pinhole leaks).

9. Physical and chemical properties

Form:	liquid	
Colour:	yellowish	
Odour:	specific	
Flash point:	> 61 °C	(DIN 53213-1)
Explosion hazard:	not explosive	
Fire promoting properties:	not fire-propagating	
Density:	1.024 g/cm ³ (23 °C)	
Viscosity, dynamic:	170 mPa.s (23 °C)	

10. Stability and reactivity

Conditions to avoid:

See MSDS section 7 - Handling and storage.

Thermal decomposition: No decomposition if stored and handled as prescribed/indicated.

Substances to avoid:

zinc, aluminium, oxidizing agents, strong alkalies, acids, mild steel, carbon steel (iron)

Hazardous reactions:

The product is stable if stored and handled as prescribed/indicated.

11. Toxicological information

Acute toxicity*Information on: m-Phenylenebis(methylamine)*

Assessment of acute toxicity:

Of moderate toxicity after short-term inhalation. Of moderate toxicity after single ingestion. The toxicity of the product is based on its corrosivity.

*Information on: Benzyl alcohol**Assessment of acute toxicity:*

Of moderate toxicity after short-term inhalation. Of moderate toxicity after single ingestion.

*Information on: m-Phenylenebis(methylamine)**Experimental/calculated data:*

LD50 rat (oral): 980 - 1,090 mg/kg (OECD Guideline 401)

*Information on: Benzyl alcohol**Experimental/calculated data:*

LD50 rat (oral): 1,610 mg/kg (Directive 84/449/EEC, B.1)

*Information on: m-Phenylenebis(methylamine)**Experimental/calculated data:*

LC50 rat (by inhalation): 1.34 mg/l 4 h (OECD Guideline 403)

An aerosol was tested.

*Information on: Benzyl alcohol**Experimental/calculated data:*

LC50 rat (by inhalation): > 4.1 mg/l 4 h (OECD Guideline 403)

The European Union (EU) has classified this substance as 'harmful'. An aerosol was tested.

*Information on: m-Phenylenebis(methylamine)**Experimental/calculated data:*

LD50 rat (dermal): approx. 2,600 mg/kg (BASF-Test)

*Information on: Benzyl alcohol**Experimental/calculated data:*

LD50 rabbit (dermal): 2,000 mg/kg

Irritation*Information on: m-Phenylenebis(methylamine)**Assessment of irritating effects:*

Corrosive! Damages skin and eyes. May cause severe damage to the eyes.

*Information on: Benzyl alcohol**Assessment of irritating effects:*

Not irritating to the skin. Eye contact causes irritation.

*Information on: m-Phenylenebis(methylamine)**Experimental/calculated data:*

Skin corrosion/irritation rat: Corrosive.

Information on: Benzyl alcohol

Experimental/calculated data:

Skin corrosion/irritation rabbit: non-irritant (OECD Guideline 404)

Information on: m-Phenylenebis(methylamine)

Experimental/calculated data:

Serious eyes damages/irritation: irreversible damageAs the product corrodes the skin, it can be expected to have a similar effect on the eyes also.

Information on: Benzyl alcohol

Experimental/calculated data:

Serious eyes damages/irritation rabbit: Irritant. (OECD Guideline 405)

Respiratory/Skin sensitization

Information on: m-Phenylenebis(methylamine)

Assessment of sensitization:

Sensitization after skin contact possible.

Information on: Benzyl alcohol

Assessment of sensitization:

Animal studies and human data do not fully exclude a skin sensitizing potential.

Germ cell mutagenicity

Information on: m-Phenylenebis(methylamine)

Assessment of mutagenicity:

The substance was not mutagenic in bacteria. The substance was not mutagenic in mammalian cell culture. The substance was not mutagenic in a test with mammals.

Information on: Benzyl alcohol

Assessment of mutagenicity:

The substance was not mutagenic in bacteria. The substance was not mutagenic in studies with mammals.

12. Ecological information

Ecotoxicity

Information on: m-Phenylenebis(methylamine)

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms. The inhibition of the degradation activity of activated sludge is not anticipated when introduced to biological treatment plants in appropriate low concentrations.

Information on: Benzyl alcohol

Assessment of aquatic toxicity:

Acutely harmful for aquatic organisms.

Information on: m-Phenylenebis(methylamine)

Toxicity to fish:

LC50 (96 h) 87.6 mg/l, Oryzias latipes (OECD 203; ISO 7346; 92/69/EEC, C. 1, semistatic)

The statement of the toxic effect relates to the analytically determined concentration.

Information on: Benzyl alcohol

Toxicity to fish:

LC50 (96 h) 10 mg/l, Lepomis macrochirus (static)

The details of the toxic effect relate to the nominal concentration. Literature data.

Information on: m-Phenylenebis(methylamine)

Aquatic invertebrates:

EC50 (48 h) 15.2 mg/l, Daphnia magna (OECD Guideline 202, part 1, static)

The statement of the toxic effect relates to the analytically determined concentration.

Information on: Benzyl alcohol

Aquatic invertebrates:

EC50 (24 h) 55 mg/l, Daphnia magna (static)

The details of the toxic effect relate to the nominal concentration. Literature data.

Information on: m-Phenylenebis(methylamine)

Aquatic plants:

EC50 (72 h) 20.3 mg/l (biomass), Selenastrum capricornutum (OECD Guideline 201, static)

The statement of the toxic effect relates to the analytically determined concentration.

Information on: Benzyl alcohol

Aquatic plants:

Toxic limit concentration (96 h) 640 mg/l (biomass), Scenedesmus quadricauda (static)

Nominal concentration. Literature data.

Information on: m-Phenylenebis(methylamine)

Microorganisms/Effect on activated sludge:

EC20 (30 min) approx. 500 mg/l, activated sludge, domestic (OECD Guideline 209, aerobic)

Nominal concentration.

Information on: Benzyl alcohol

Microorganisms/Effect on activated sludge:

EC10 (17 h) 658 mg/l, Pseudomonas putida (DIN 38412 Part 8, aquatic)

Nominal concentration. Literature data.

Persistence and degradability

Information on: m-Phenylenebis(methylamine)

Assessment biodegradation and elimination (H₂O):

Moderately/partially biodegradable.

Bioaccumulation potential

Information on: m-Phenylenebis(methylamine)

Bioaccumulation potential:

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Bioconcentration factor: < 2.7 (42 d), Cyprinus sp. (OECD Guideline 305 C)
Significant accumulation in organisms is not to be expected.

13. Disposal considerations

Observe national and local legal requirements.
Residues should be disposed of in the same manner as the substance/product.

Contaminated packaging:
Contaminated packaging should be emptied as far as possible; then it can be passed on for recycling after being thoroughly cleaned.

14. Transport information

Land transport

ADR

Hazard class:	8
Packing group:	III
ID number:	UN 2735
Hazard label:	8
Proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (contains M-PHENYLENEBIS(METHYLAMINE), 2-PIPERAZIN-1-YLETHYLAMINE)

RID

Hazard class:	8
Packing group:	III
ID number:	UN 2735
Hazard label:	8
Proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (contains M-PHENYLENEBIS(METHYLAMINE), 2-PIPERAZIN-1-YLETHYLAMINE)

Inland waterway transport

ADNR

Hazard class:	8
Packing group:	III
ID number:	UN 2735
Hazard label:	8
Proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (contains M-PHENYLENEBIS(METHYLAMINE), 2-PIPERAZIN-1-YLETHYLAMINE)

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Sea transport**IMDG**

Hazard class:	8
Packing group:	III
ID number:	UN 2735
Hazard label:	8
Marine pollutant:	NO
Proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (contains M-PHENYLENEBIS(METHYLAMINE), 2-PIPERAZIN-1-YLETHYLAMINE)

Air transport**IATA/ICAO**

Hazard class:	8
Packing group:	III
ID number:	UN 2735
Hazard label:	8
Proper shipping name:	AMINES, LIQUID, CORROSIVE, N.O.S. (contains M-PHENYLENEBIS(METHYLAMINE), 2-PIPERAZIN-1-YLETHYLAMINE)

15. Regulatory information**Regulations of the European union (Labelling) / National legislation/Regulations****Directive 1999/45/EC ('Preparation Directive')**

Hazard symbol(s)	
C	Corrosive.
R-phrase(s)	
R20/22	Harmful by inhalation and if swallowed.
R34	Causes burns.
R43	May cause sensitization by skin contact.
R52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
S-phrase(s)	
S26	In case of contact with eyes, rinse immediately with plenty of water and seek medical advice.
S36/37/39	Wear suitable protective clothing, gloves and eye/face protection.
S45	In case of accident or if you feel unwell, seek medical advice immediately (show the label where possible).
S51	Use only in well-ventilated areas.
S61	Avoid release to the environment. Refer to special instructions/safety data sheets.

Other regulations

16. Other information

Due to the merger of Degussa Construction chemicals and BASF Group all Material Safety Data Sheets have been reassessed on the basis of consolidated information. This may have resulted in changes of the Material Safety Data Sheets. In case you have questions concerning such changes please contact us under the address mentioned in Section I.

Full text of hazard symbols and R-phrases if mentioned as hazardous components in chapter 3:

C	Corrosive.
Xn	Harmful.
N	Dangerous for the environment.
20/22	Harmful by inhalation and if swallowed.
34	Causes burns.
43	May cause sensitization by skin contact.
21/22	Harmful in contact with skin and if swallowed.
52/53	Harmful to aquatic organisms, may cause long-term adverse effects in the aquatic environment.
22	Harmful if swallowed.
36/38	Irritating to eyes and skin.
51/53	Toxic to aquatic organisms, may cause long-term adverse effects in the aquatic environment.

Vertical lines in the left hand margin indicate an amendment from the previous version.

The data contained in this safety data sheet are based on our current knowledge and experience and describe the product only with regard to safety requirements. The data do not describe the product's properties (product specification). Neither should any agreed property nor the suitability of the product for any specific purpose be deduced from the data contained in the safety data sheet. It is the responsibility of the recipient of the product to ensure any proprietary rights and existing laws and legislation are observed.